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(FILE 'USPAT' ENTERED AT 12:49:59 ON 17 OCT 96).

ACT A437975B/L

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L1 ( 82) SEA FILE=USPAT PLU=ON SYNCHRONOUS? (2A) DRAM  
L2 ( 33) SEA FILE=USPAT PLU=ON L1 (P) (CONTROL OR CONTROLLER)  
L3 ( 0) SEA FILE=USPAT PLU=ON SCHEDUL? (P) L1  
L4 ( 10) SEA FILE=USPAT PLU=ON SCHEDUL? (3A) (MEMORY (3A) REQUEST)  
L5 ( 816) SEA FILE=USPAT PLU=ON MAXIMIZ? (3A) THROUGHPUT  
L6 ( 0) SEA FILE=USPAT PLU=ON MAXIMIZ? (3A) USE (2A) DATA (3A) SLOT  
L7 ( 2) SEA FILE=USPAT PLU=ON PRIORIT? (P) L2  
L8 ( 195) SEA FILE=USPAT PLU=ON BANK (3A) SORT?  
L9 ( 452) SEA FILE=USPAT PLU=ON (REORDER? OR RE (W) ORDER?) (3A) (DATA  
OR  
L10 ( 0) SEA FILE=USPAT PLU=ON L2 (P) L4  
L11 ( 0) SEA FILE=USPAT PLU=ON L2 (P) L5  
L12 ( 0) SEA FILE=USPAT PLU=ON L2 AND L8  
L13 ( 0) SEA FILE=USPAT PLU=ON L2 AND L9  
L14 ( 0) SEA FILE=USPAT PLU=ON L2 (2P) (SORT OR SORTING)  
L15 ( 0) SEA FILE=USPAT PLU=ON L2 AND SCHEDUL?  
L16 ( 16078) SEA FILE=USPAT PLU=ON TAG OR TAGGED OR TAGGING  
L17 ( 140) SEA FILE=USPAT PLU=ON L16 (P) (MEMORY (2W) REQUEST?)  
L18 ( 0) SEA FILE=USPAT PLU=ON L2 AND L17  
L19 ( 32) SEA FILE=USPAT PLU=ON L17 (P) ORDER?

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L20 33 S L2  
L21 32 S L19  
L22 10 S L4  
L23 810 S SYNCHRONOUS? (2A) MEMORY  
L24 0 S L8 AND L23  
L25 37 S STAY (3A) PAGE  
L26 0 S L23 AND L25  
L27 17 S (REORDER? OR (RE (2W) ORDER?)) (3A) (MEMORY (2A) (ACCESS? OR R  
EQU  
L28 2141 S OVERLAP? (3A) OPERATION  
L29 1 S L1 AND L28  
L30 0 S L7]  
L31 0 S L20 AND L27  
L32 3 S COMPLET? (3A) REQUEST? (3A) OUT (3A) ORDER  
L33 86 S (SORT OR SORTING) (P) REQUEST (P) ADDRESS?  
L34 25 S L33 AND SCHEDUL?  
L35 19 S L34 AND MEMORY  
L36 0 S L1 AND L5  
L37 2007 S MAXIM? (3A) THROUGHPUT  
L38 0 S L1 AND L37  
L39 13 S MAXIM? (3A) DATA (3A) SLOT

L40           0 S L39 AND L1  
L41       130 S ARBITRAT? (3A) (MEMORY (2A) REQUEST?)  
L42           0 S L1 AND L41  
L43       63 S CONFLICT? (3A) MEMORY (2A) REQUEST  
L44           0 S L1 AND L43  
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L5 ( 816) SEA FILE=USPAT PLU=ON MAXIMIZ? (3A) THROUGHPUT  
L6 ( 0) SEA FILE=USPAT PLU=ON MAXIMIZ? (3A) USE (2A) DATA (3A) SLOT  
L7 ( 2) SEA FILE=USPAT PLU=ON PRIORIT? (P) L2  
L8 ( 195) SEA FILE=USPAT PLU=ON BANK (3A) SORT?  
L9 ( 452) SEA FILE=USPAT PLU=ON (REORDER? OR RE(W) ORDER?) (3A) (DATA  
OR  
L10 ( 0) SEA FILE=USPAT PLU=ON L2 (P) L4  
L11 ( 0) SEA FILE=USPAT PLU=ON L2 (P) L5  
L12 ( 0) SEA FILE=USPAT PLU=ON L2 AND L8  
L13 ( 0) SEA FILE=USPAT PLU=ON L2 AND L9  
L14 ( 0) SEA FILE=USPAT PLU=ON L2 (2P) (SORT OR SORTING)  
L15 ( 0) SEA FILE=USPAT PLU=ON L2 AND SCHEDUL?  
L16 ( 16078) SEA FILE=USPAT PLU=ON TAG OR TAGGED OR TAGGING  
L17 ( 140) SEA FILE=USPAT PLU=ON L16 (P) (MEMORY (2W) REQUEST?)  
L18 ( 0) SEA FILE=USPAT PLU=ON L2 AND L17  
L19 ( 32) SEA FILE=USPAT PLU=ON L17 (P) ORDER?

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L20 33 S L2  
L21 32 S L19  
L22 10 S L4  
L23 810 S SYNCHRONOUS? (2A) MEMORY  
L24 0 S L8 AND L23  
L25 37 S STAY (3A) PAGE  
L26 0 S L23 AND L25  
L27 17 S (REORDER? OR (RE (2W) ORDER?)) (3A) (MEMORY (2A) (ACCESS? OR R  
EQU  
L28 2141 S OVERLAP? (3A) OPERATION  
L29 1 S L1 AND L28  
L30 0 S L7]  
L31 0 S L20 AND L27  
L32 3 S COMPLET? (3A) REQUEST? (3A) OUT (3A) ORDER  
L33 86 S (SORT OR SORTING) (P) REQUEST (P) ADDRESS?  
L34 25 S L33 AND SCHEDUL?  
L35 19 S L34 AND MEMORY

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22. 5,521,879, May 28, 1996, Synchronous dynamic random access memory;  
Atsushi Takasugi, 365/233, 189.02, 189.03, 189.05, 230.02, 230.08 [IMAGE  
AVAILABLE]

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(FILE 'USPAT' ENTERED 'AT 10:07:51 ON 17 OCT 96)

L1 82 S SYNCHRONOUS? (2A) DRAM  
L2 33 S L1 (P) (CONTROL OR CONTROLLER)  
L3 0 S SCHEDUL? (P) L1  
L4 10 S SCHEDUL? (3A) (MEMORY (3A) REQUEST)  
L5 816 S MAXIMIZ? (3A) THROUGHPUT  
L6 0 S MAXIMIZ? (3A) USE (2A) DATA (3A) SLOT  
L7 2 S PRIORIT? (P) L2  
L8 195 S BANK (3A) SORT?  
L9 452 S (REORDER? OR RE (W) ORDER?) (3A) (DATA OR REQUEST)  
L10 0 S L2 (P) L4  
L11 0 S L2 (P) L5  
L12 0 S L2 AND L8  
L13 0 S L2 AND L9  
L14 0 S L2 (2P) (SORT OR SORTING)  
L15 0 S L2 AND SCHEDUL?  
L16 16078 S TAG OR TAGGED OR TAGGING  
L17 140 S L16 (P) (MEMORY (2W) REQUEST?)  
L18 0 S L2 AND L17  
L19 32 S L17 (P) ORDER?  
SAVE A437975B/L ALL

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(FILE 'USPAT' ENTERED AT 12:49:59 ON 17 OCT 96)

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L1 ( 82) SEA FILE=USPAT PLU=ON SYNCHRONOUS? (2A) DRAM  
L2 ( 33) SEA FILE=USPAT PLU=ON L1 (P) (CONTROL OR CONTROLLER)  
L3 ( 0) SEA FILE=USPAT PLU=ON SCHEDUL? (P) L1  
L4 ( 10) SEA FILE=USPAT PLU=ON SCHEDUL? (3A) (MEMORY (3A) REQUEST)  
L5 ( 816) SEA FILE=USPAT PLU=ON MAXIMIZ? (3A) THROUGHPUT  
L6 ( 0) SEA FILE=USPAT PLU=ON MAXIMIZ? (3A) USE (2A) DATA (3A) SLOT  
L7 ( 2) SEA FILE=USPAT PLU=ON PRIORIT? (P) L2  
L8 ( 195) SEA FILE=USPAT PLU=ON BANK (3A) SORT?  
L9 ( 452) SEA FILE=USPAT PLU=ON (REORDER? OR RE(W) ORDER?) (3A) (DATA  
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L10 ( 0) SEA FILE=USPAT PLU=ON L2 (P) L4  
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L13 ( 0) SEA FILE=USPAT PLU=ON L2 AND L9  
L14 ( 0) SEA FILE=USPAT PLU=ON L2 (2P) (SORT OR SORTING)  
L15 ( 0) SEA FILE=USPAT PLU=ON L2 AND SCHEDUL?  
L16 ( 16078) SEA FILE=USPAT PLU=ON TAG OR TAGGED OR TAGGING  
L17 ( 140) SEA FILE=USPAT PLU=ON L16 (P) (MEMORY (2W) REQUEST?)  
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L19 ( 32) SEA FILE=USPAT PLU=ON L17 (P) ORDER?

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L20 33 S L2  
L21 32 S L19  
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L24 0 S L8 AND L23  
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L27 17 S (REORDER? OR (RE (2W) ORDER?)) (3A) (MEMORY (2A) (ACCESS? OR R  
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L28 2141 S OVERLAP? (3A) OPERATION  
L29 1 S L1 AND L28  
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